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# Model #: SU10000RT3U2TF

## SmartOnline Expandable Rack/Tower UPS System - Online, double-conversion protection for mission-critical applications

### Highlights

- 10,000VA / 10kVA online 10U rack / tower UPS with expandable runtime (3U Power Module + 3U Battery Pack + QTY 2 -2u stepdown transformers)
- Zero transfer time, on-line, double-conversion and economy-mode operation supported
- Manual Bypass Switch and detachable PDU enables hot-swap UPS replacement without powering off connected loads
- Maintains 208V and simultaneous 120V output
- 2% output voltage regulation over an input voltage range of 156 to 276
- Enhanced serial communications ports, SNMP/Web Card Slot and EPO interfaces
- $250,000 Ultimate LIfetime Insurance (USA & Canada only).

### Description

10,000 VA on-line, double-conversion UPS system for critical server, network and telecommunications equipment. Installs in only 10 rack spaces (3U power module, 3U battery pack and two 2U step-down transformers). Maximum installed rack depth of 32.5 in. Expandable battery runtime with optional external battery packs. Full-time sine wave 208V and 120V +/-2% output. Actively converts raw incoming AC power to DC, then re-converts output back to completely regulated, filtered AC output. Operates continuously without using battery power during brownouts to 156V and overvoltages to 276V. Highly efficient operation in optional economy mode setting, saving BTU heat output and energy costs. Standard 3-wire 208V hardwire input connection; NEMA L6-30R, L6-20R and 5-15/20R output receptacles. Detachable input-output PDU module with manual bypass switch enables hot-swap UPS replacement without disrupting power to connected equipment. Network-grade AC surge and noise suppression. Zero transfer time between AC and battery operation. Network management interfaces support communications via RS-232, contact-closure port and optional SNMPWEBCARD slot. Supports detailed monitoring of equipment load levels, self-test data and mains power conditions via network interfaces. Includes PowerAlert monitoring software and complete cabling. Emergency Power Off (EPO) interface. Front panel LEDs offer at-a-glance confirmation of line power status, battery power status, AC-to-DC conversion, DC-to-AC conversion, bypass mode and output power status. LED/LCD display panel easily rotates for better viewing in rackmount or tower configurations. LCD panel with scroll buttons offers detailed diagnostic test information at startup and during self tests, plus real-time data on input and output voltage, frequency (Hz), load percentage and battery charge level. Audible alarm. Self-test. Fault-tolerant auto-bypass mode. 4-post rackmount accessories and 2-9USTAND tower kit included; 2POSTRMKITWM two post rackmount hardware accessories available. Field-replaceable, hot-swappable power module and external battery 2-year warranty and $250,000 connected equipment insurance; extended warranty and service contracts available.

Applications

- Ideal for protection of sensitive electronics in any application calling for upright tower or 19-in. rackmount UPS protection. Common applications include any mix of servers, workstations, hubs, routers, concentrators, IP telephony and traditional PBX switching systems

Package Includes

- 3U power module with detachable hot-swap PDU input/output panel and manaul bypass switch
- 3U external battery pack
- 2 x 2U step-down transformers
- Two sets of 4-post rackmount rails (one for each 3U component); one set of tower stands for upright tower installation
- PowerAlert Software, complete data cabling, user manual with warranty information

## Features

- 10,000 VA on-line, double-conversion UPS system (high voltage input/high AND low voltage output)
- Detachable input-output PDU module with manual bypass switch enables hot-swap UPS replacement without powering off connected equipment
- Installs in only 10 rack spaces (3U power module, 3U battery pack, 2 x 2U step-down transformers) with a maximum installed depth of 32.5 inches
- Offers 4 min. runtime at full load (10,000VA/8000W) and 10 min. at half load (5000VA/4000W). Runtime is expandable with any number of optional external battery packs
- Full-time sine wave 208V and simultaneous 120v +/-2% output
- Actively converts raw incoming AC power to DC, then re-converts output back to completely regulated, filtered AC output
- Operates continuously without using battery power during brownouts to 156V and overvoltages to 276V
- Standard 3-wire 208V hardwire input connection
- 2 NEMA L6-30R, 4 L6-20R and 24 5-15/20R output receptacles
- Detailed LCD panel with scroll buttons offers detailed diagnostic test
- Network-grade AC surge and noise suppression
- Zero transfer time between AC and battery operation
- Includes slot for internal SNMP/web card, plus DB9 enhanced serial monitoring port, and contact closure port for unattended shudown, remote control and monitoring of UPS system and power data
- Supports detailed monitoring of equipment load levels, self-test data and mains power conditions via network interfaces. Includes PowerAlert monitoring software and complete cabling
- Emergency Power Off (EPO) interface
- Front panel LEDs offer at-a-glance confirmation of line power status, battery power status, AC-to-DC & DC-to-AC conversion, bypass mode and output power status.
- Fault-tolerant auto-bypass mode prevents loss of output during UPS fault conditions or excessive UPS loading
- 4-post rackmount and upright tower installation accessories included; 2POSTRMKITWM 2-post rackmount hardware accessories available
- Field-replaceable, hot-swappable power module and external battery packs
- Attractive all-black color scheme
- 2-year warranty; $250,000 connected equipment insurance
- Extended warranty and service contracts available

## Specifications

| | |
|---|---|
| **SYSTEM OVERVIEW** | |
| **Voltage compatibility** | 208V & 120V AC |
| **Frequency compatibility** | 50/60 Hz |
| **OUTPUT** | |
| **Output VA** | 10000 |
| **Output watts** | 8000 |
| **Output nominal voltage** | 208V & 120V AC |
| **Output voltage regulation** | Maintains pure sine wave output at all times, regulated within 2% of selected nominal output voltage, less than 3% total harmonic distortion when used with computer loads |
| **Output frequency regulation** | Regulates line frequency to 50/60Hz +/- 0.05Hz |
| **Outlet quantity / type** | 2 x NEMA L6-30R, 4 x NEMA L6-20R, 24 x NEMA 5-15/20R |
| **INPUT** | |
| **Maximum input amps** | 208V- 44.9A |
| **Input connection type** | Hardwire |

| | |
|---|---|
| **BATTERY** | |
| **Full load runtime** | 4 min. (10,000VA/8000W) |
| **Half load runtime** | 10 min. (5000VA/4000W) |
| **Connects to UPS via** | Included 3-wire DC cable |
| **DC system voltage** | 240VDC |
| **Typical battery lifespan** | 4-6 years |
| **Battery recharge rate** | Less than 8 hours to 90% (included battery set only) |
| **VOLTAGE REGULATION** | |
| **Voltage regulation description** | On-line, double-conversion process give this UPS the ability to maintain output voltage within +/-2% of selected nominal voltage at all times |
| **Overvoltage correction** | Maintains continuous operation without using battery power during overvoltages to 276V AC, regulating output within 2% of selected nominal |
| **Brownout correction** | Maintains continuous operation without using battery power during brownout / undervoltage conditions to 156V AC, regulating output within 2% of selected nominal |
| **LEDS ALARMS & SWITCHES** | |
| **Front panel LEDs** | 6 LED DISPLAY: line power, bypass, inverter, charger, output AC and battery operation. LED/LCD display panel easily rotates for better viewing in rackmount or tower configurations. |
| **Alarms** | Multi-function audible alarm offers notification of UPS start, backup operation, low battery, overload, UPS fault, inverter fault, DC bus fault, overtemperature, remote shutdown, shutdown imminent and shutdown complete |
| **Switches** | Includes main power off/on switch, plus 2 switches to set and execute scrollable LCD functions |
| **SURGE / NOISE SUPPRESSION** | |
| **AC suppression response time** | Instantaneous |
| **EMI / RFI AC noise suppression** | Yes |
| **PHYSICAL** | |
| **Shipping weight (lbs)** | 402 |
| **Shipping weight (kg)** | 181 |
| **Shipping Dimensions (HWD/in)** | 49.3 x 23 x 31.5 |
| **Shipping Dimensions (HWD/cm)** | 125.1 x 58.4 x 80 |
| **Unit weight (lbs)** | Power Module (54.8), Step-down Transformers (60), Battery Pack (158.7) |
| **Unit weight (kg)** | Power Module (24.7), Step-down Transformers (27), Battery Pack (71.4) |
| **Unit Dimensions (HWD/in)** | Power Module 5.14 x 17.5 x 25, Step down transformers 3.5 x 17.5 x 20.8, Battery Pack 5.16 x 17.5 x 25 (Installed depth of power module extends to 32.5 inches once detachable PDU backplate is installed) |
| **Unit Dimensions (HWD/cm)** | Power Module 13.3 x 44.4 x 63.5, Step down transformers 8.9 x 44.5 x 52.7, Battery Pack 13.4 x 40.6 x 63.5 (Installed depth of power module extends to 82.6 cm once detachable PDU backplate is installed) |
| **Material of construction** | Steel |
| **Form factors supported** | Rack (10U) |
| **Cooling method** | Fan |
| **Battery Access** | User replaceable, hot swappable external battery pack |
| **ENVIRONMENTAL** | |
| **Relative Humidity** | 0 to 95%, non-condensing |
| **Storage Temperature** | +5 to +122 degrees Fahrenheit / -15 to +50 degrees Celsius |

| | |
|---|---|
| **Operating Temperature** | +32 to +104 degrees Fahrenheit / 0 to +40 degrees Celsius |
| **Line mode BTU/hr. (Max.)** | 3022 btu/hr. |
| **Battery mode BTU/hr. (Max.)** | 3022 btu/hr. |
| **COMMUNICATIONS** | |
| **Network monitoring port** | Includes 2 built-in DB9 monitoring ports (1-RS232 / 1-contact closure) |
| **Software and cabling included** | Includes PowerAlert UPS monitoring software for all common network and standalone operating systems. Cabling included. |
| **SNMP compatibility** | Built-in accessory slot accommodates internal SNMP / Web card and other network accessories |
| **WatchDog compatibility** | Yes, compatible with Tripp Lite's Watchdog system service to restore operation to locked equipment through soft reboot of application / OS or hard power off/on reboot of connected equipmentideal for unattended kiosk applications |
| **LINE / BATTERY TRANSFER** | |
| **Transfer time from line power to battery mode** | Zero; on-line UPS continuously converts incoming AC to DC, then back to AC. When line power is interrupted, UPS maintains continuous output from battery reserves with absolutely no disruption in output AC power. |
| **Low voltage transfer to battery power** | Maintains continuous operation during undervoltages as low as 156VAC. Below this point, output is maintained utilizing battery reserves. |
| **High voltage transfer to battery power** | Maintains continuous operation during overvoltages to 276V AC. Above this point, output is maintained utilizing battery reserves. |
| **SPECIAL FEATURES** | |
| **EPO port** | Includes dedicated EPO (emergency power off) interface and cabling |
| **Cold Start** | Yes, inverter can be cold started to enable temporary AC output during a power failure |
| **Appearance** | Attractive all-black color scheme |
| **BATTERY PACK ACCESSORY (optional)** | |
| **Battery Pack Accessory (optional)** | BP240V10RT3U, BP240V557C-1PH, BP240V787C-1PH, BP240V1037C-1PH, BP240V1407C-1PH |
| **CERTIFICATIONS** | |
| **Certifications** | Tested to UL1778 (USA), CSA C22.2 No. 107.3 (Canada), CE (European Union), NOM (Mexico), Class A (Emissions) |
| **WARRANTY** | |
| **Product Warranty Period** | 2 years |
| **Connected Equipment Coverage** | $250,000 |
| **Optional Coverage** | 3-year, 5-year, next-day and on-site warranty coverage available for select opportunities; contact Tripp Lite |

## Related Items

| **Extended Warranties** | | |
|---|---|---|
| WEXT3-SU10K | 3-Year Extended Warranty - For SU10K models | Qty: [optional] |
| WEXT5-SU10K | 5-Year Extended Warranty - For SU10K models | Qty: [optional] |

| **External Battery Packs** | | |
|---|---|---|
| BP240V10RT3U | External Battery Pack and Cable. 3U, Expandable, Black 3-Point Connector | Qty: [optional] |
| BP240V557C-1PH | External battery pack for use with select Tripp Lite UPS Systems | Qty: [optional] |
| BP240V787C-1PH | External battery pack for use with select Tripp Lite UPS Systems | Qty: [optional] |
| BP240V1407C-1PH | External battery pack for use with select Tripp Lite UPS Systems | Qty: [optional] |
| BP240V1037C-1PH | External battery pack for use with select Tripp Lite UPS Systems | Qty: [optional] |

| Rackmount/Wallmount Kits | | |
|---|---|---|
| 2POSTRMKITWM | Universal 2-Post Rackmount Kit (Supports 2U to 4U UPS systems and battery packs.) | Qty: [optional] |

| Shutdown Cable Kits | | |
|---|---|---|
| AS400CABLE KIT | Power Management Tools - UPS Communication Cable Kit for System i / AS400 / iSeries Servers | Qty: [optional] |

| SNMP Accessories | | |
|---|---|---|
| ENVIROSENSE | Monitors temperature, humidity and contact-closure inputs. (Requires SNMPWEBCARD or switched PDU.) | Qty: [optional] |
| SNMPWEBCARD | For remote monitoring and control via SNMP, Web or telnet. | Qty: [optional] |

| Start-Up/Warranty Services | | |
|---|---|---|
| W02-BW0 | Regular business hours start-up, excludes on-site warranty. | Qty: [optional] |
| W02-BW2-1BD | Regular business hours start-up and two year on-site, next business day break/fix warranty service for locations within 350 miles of a covered service area. | Qty: [optional] |
| W02-BW2-247 | Regular business hours start-up and two year on-site, 24-by-7 break/fix warranty service for locations within 250 miles of a covered service area. | Qty: [optional] |
| W02-BW3-1BD | Regular business hours start-up and three year on-site, next business day break/fix warranty service for locations within 350 miles of service area. | Qty: [optional] |
| W02-BW3-247 | Regular business hours start-up and three year on-site, 24-by-7 break/fix warranty service for locations within 250 miles of service area. | Qty: [optional] |
| W02-EW0 | Evening or weekend hours start-up, excludes on-site warranty. | Qty: [optional] |
| W02-EW2-1BD | Evening or weekend hours start-up and two year on-site, next business day break/fix warranty service for locations within 350 miles of service area. | Qty: [optional] |
| W02-EW2-247 | Evening or weekend hours start-up and two year on-site, 24-by-7 break/fix warranty service for locations within 250 miles of service area. | Qty: [optional] |
| W02-EW3-1BD | Evening or weekend hours start-up and three year on-site, next business day break/fix warranty service for locations within 350 miles of service area. | Qty: [optional] |
| W02-EW3-247 | Evening or weekend hours start-up and three year on-site, 24-by-7 break/fix warranty service for locations within 250 miles of service area. | Qty: [optional] |
| W02-BW1-1BD | Regular business hours start-up and one year on-site, next business day break/fix warranty service for locations within 350 miles of a covered service area. | Qty: [optional] |
| W02-BW1-247 | Regular business hours start-up and one year on-site, 24-by-7 break/fix warranty service for locations within 250 miles of a covered service area. | Qty: [optional] |
| W02-EW1-1BD | Evening or weekend hours start-up and one year on-site, next business day break/fix warranty service for locations within 350 miles of service area. | Qty: [optional] |
| W02-EW1-247 | Evening or weekend hours start-up and one year on-site, 24-by-7 break/fix warranty service for locations within 250 miles of service area. | Qty: [optional] |

More information, including related products, owner's manuals, and additional technical specifications, can be found online at www.tripplite.com/en/products/model.cfm?txtModelID=3213.

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